

This listing of the claims will replace all prior versions and listings of claims in the application:

IN THE CLAIMS:

1. (Currently Amended) An electrochemical cell comprising:

a container defining a positive cell terminal end and a negative cell terminal end;

a cathode disposed in the container and including a primary active material;

an extender different and separate from the primary active material and present in an amount no greater than that of the primary active material, wherein the extender has a discharge voltage lower than an initial discharge voltage of the primary active material;

an anode including an anode material disposed in the container adjacent the cathode; and

at least one separator disposed between the anode and cathode, and further disposed between the anode and extender.

2. (Original) The electrochemical cell as recited in claim 1, wherein the cell has a discharge capacity greater than that of an otherwise identical cell containing primary active material in place of the extender.

3. (Cancelled).

4. (Original) The electrochemical cell as recited in claim 1, wherein the primary active material comprises manganese dioxide.

5. (Cancelled).

6. (Cancelled).

7. (Original) The electrochemical cell as recited in claim 1, wherein the extender includes an oxide of copper.

8. (Original) The electrochemical cell as recited in claim 1, wherein the extender includes at least one of a metal, a sulfur-containing material, a hydroxide, and a salt.

Claims 9-11. (Cancelled).

12. (Original) The electrochemical cell as recited in claim 1, wherein the extender comprises a material identified generally by $M_xCu_yO_z$, wherein:

M is any element capable of producing mixed oxide compounds or complexes;

$$1 \leq x \leq 5 ;$$

$$1 \leq y \leq 5 ; \text{ and}$$

$$1 \leq z \leq 20.$$

13. (Original) The electrochemical cell as recited in claim 12, wherein M is selected from the group consisting of Mn, Ni, Co, Fe, Sn, V, Mo, Pb, and Ag.

14. (Original) The electrochemical cell as recited in claim 12, wherein the copper based mixed oxide material further comprises an additional metal "A" identified in a compound $AM_xCu_yO_z$.

15. (Original) The electrochemical cell as recited in claim 14, wherein "A" is selected from the group consisting of Li, Na, K, Rb, Cs, Ca, Mg, Sr and Ba.

16. (Original) The electrochemical cell as recited in claim 1, wherein the extender has a specific discharge capacity at least as high as that of the primary active material.

Claims 17-18. (Cancelled).

19. (Original) The electrochemical cell as recited in claim 1, having an anode: primary cathode capacity ratio greater than 0.98 : 1.

Claims 20-23. (Cancelled).

24. (Original) The electrochemical cell as recited in claim 1, having an anode capacity/cell internal volume ratio greater than 0.5 Ah/cc.

Claims 25-26. (Cancelled).

27. (Original) The electrochemical cell as recited in claim 1, wherein the extender is disposed in the cathode.

28. (Cancelled).

29. (Previously Presented) The electrochemical cell as recited in claim 1, wherein the extender is disposed proximal to at least one of the positive cell terminal end and the negative cell terminal end.

30. (Original) The electrochemical cell as recited in claim 1, wherein, in the presence of alkaline electrolyte, the extender generates anode-fouling species soluble in the electrolyte and capable of migrating toward the anode.

31. (Original) The electrochemical cell as recited in claim 30, further comprising an agent that reduces anode fouling by the soluble species with respect to an identical cell without the agent.

Claims 32-37. (Cancelled).

38. (Previously Presented) The electrochemical cell as recited in claim 31, wherein the agent is selected from the group consisting of polyvinyl alcohol, activated carbon, and a silicate.

Claims 39-40. (Cancelled).

41. (Original) The electrochemical cell as recited in claim 1, wherein the primary active material comprises at least one of an oxide and a hydroxide of at least one of nickel, lead, and silver.

42. (Original) The electrochemical cell as recited in claim 1, wherein a layer comprising the extender and a conducting agent is disposed between the cathode and the container.

Claims 43-44. (Cancelled).

45. (Original) The electrochemical cell as recited in claim 1, further comprising an alkaline electrochemical cell.

46. (Currently Amended) An electrochemical cell comprising:

a container defining a positive cell terminal end and a negative cell terminal end;

a cathode disposed in the container and including a primary active material;

an extender different and separate from the primary active material, wherein the extender has a discharge voltage lower than an initial discharge voltage of the primary active material.

47. (Original) The electrochemical cell as recited in claim 46, wherein the cell has a discharge capacity greater than that of an otherwise identical cell containing primary active material in place of the extender.

48. (Cancelled).

49. (Original) The electrochemical cell as recited in claim 46, wherein the primary active material comprises manganese dioxide.

50. (Cancelled).

51. (Original) The electrochemical cell as recited in claim 46, wherein the extender includes an oxide of copper.

52. (Original) The electrochemical cell as recited in claim 46, wherein the extender includes at least one of a metal, a sulfur-containing material, a hydroxide, and a salt.

Claims 53-55. (Cancelled).

56. (Original) The electrochemical cell as recited in claim 46, wherein the extender has a specific discharge capacity of at least as high as that of the primary active material.

Claims 57-58 (Cancelled).

59. (Original) The electrochemical cell as recited in claim 46, having an anode: primary cathode capacity ratio greater than 0.98 : 1.

Claims 60-63. (Cancelled).

64. (Original) The electrochemical cell as recited in claim 46, having an anode capacity/cell internal volume ratio greater than 0.5 Ah/cc.

Claims 65-163. (Cancelled).

164. (Previously Presented) An electrochemical cell comprising:
an anode;
a cathode; and
a separator disposed between the anode and cathode;
wherein the anode has a capacity of at least 0.5 Ah per cubic centimeter of cell internal volume.

Claims 165-259. (Cancelled).